# **ANNUAL REPORT FOR 2002**



Hood Creek Bridge Mitigation Site Brunswick County TIP No. B-2513



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## SUMMARY

The Hood Creek Bridge Mitigation Site is located in Brunswick County. The site was planted in 2002 and was designed as wetland and streambank mitigation for impacts associated with bridge project B-2513.

The mitigation encompasses approximately 0.25 acres total of wetland and streambank restoration. The restoration effort involved re-vegetating the area was temporarily impacted due to the use of mechanized land clearing as well as streambank reforestation. The area that was impacted by mechanized clearing is being monitored to ensure that it re-attains wetland jurisdictional status. The restoration area was revegetated with bottomland hardwood species. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the first year of monitoring, the Hood Creek Bridge site shows by visual observation that the planted species in the wetland and on the streambank are surviving and that the impacted area is re-attaining jurisdictional status.

NCDOT recommends continuing monitoring of this site.

# 1.0 INTRODUCTION

# 1.1 Project Description

The Hood Creek Bridge Mitigation site is located at Bridge No. 6 on SR 1426 in Brunswick County. The site consists of approximately 0.25 acres of mitigation for wetland and streambank impacts associated with project B-2513.

# 1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet success criteria in vegetation. This report details the vegetation monitoring in 2002 at the Hood Creek Bridge mitigation Site. Hydrologic monitoring was not required for the site.

# 1.3 Project History

March 2002 Site planted

December 2002 Vegetation Monitoring (1 year)

# B-2513 Hood Creek Bridge Site SR 1426 Mt Misery Rd Near Maco, Brunswick Co

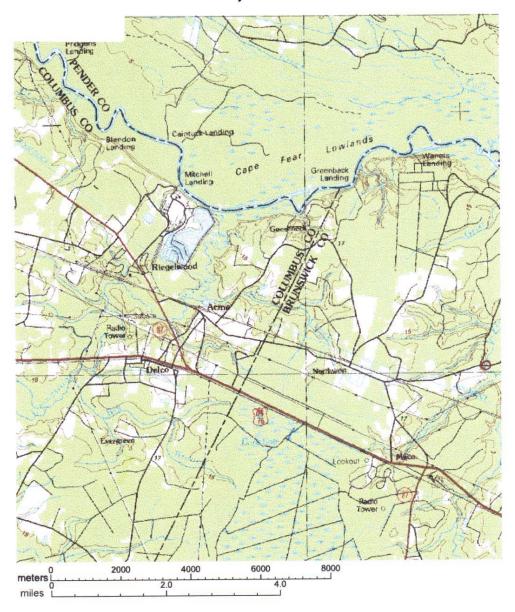


Figure 1. Site Location Map

# 2.0 VEGETATION: HOOD CREEK BRIDGE MITIGATION SITE (YEAR 1 MONITORING)

## 2.1 Success Criteria

Success Criteria states that the streambank and the temporarily impacted area where mechanized clearing occurred shall be replanted using bottomland hardwood species and the temporarily impacted area must re-attain jurisdictional status at the end of three years.

# 2.2 Description of Species

The following wetland species were planted on the streambank:

Salix nigra, Black Willow

Cornus amomum, Silky Dogwood

Taxodium distichum, Baldcypress

Platanus occidentalis, Sycamore

Prunus serotina, Black Cherry

Betula nigra, River Birch

The following wetland species were planted in the Wetland Reforestation area:

Taxodium distichum, Baldcypress

Platanus occidentalis, Sycamore

Prunus serotina, Black Cherry

Betula nigra, River Birch

# 2.3 Results of Vegetation Monitoring

The streambank and impacted area where the mechanized clearing occurred and was revegetated is re-attaining jurisdictional status and the planted species are surviving.

**Site Notes**: Other species noted include: *Juncus* sp., cattails, black willow.

### 2.4 Conclusions

There were approximately 0.25 acres total of streambank and wetland restoration on site. There were no plots established on the site. By visual observation the Hood Creek Bridge site shows that the planted species are surviving and that the impacted area is re-attaining jurisdictional status.

# 3.0 Overall Conclusions and Recommendations

NCDOT proposes to continue monitoring at the Hood Creek Bridge Site.

# APPENDIX A SITE PHOTOS

Hood Creek Bridge







Photo 2



Photo 3



Photo 4